



ELSAG License Plate Recognition System Car System User Training

MPH 900

Mobile Plate Hunter 900 Series

Keys to Success Using LPR



1. **Data** – Targeted State Data is key; the system can handle up to 4M lines of data, multiple source data can be combined
 - NCIC national stolen vehicle and plate data is published daily by the FBI
 - Terror watch list data
 - Outstanding local warrant data including sexual predators
 - Motor Vehicle data to include suspended plates and drivers
 - Scofflaw data such as parking violations
2. **Technical Training** - ELSAG will train your agency in the software, installation, troubleshooting, and driving.
3. **Consistent Use** – The equipment is extremely durable and is built to be in constant operation
4. **Drive up the #'s** - Read 1,000 tags, get a stolen, read 6,000 get an arrest. Our partner agencies have read several million tags and all agree that volume reading while on patrol wins the day.

ELSAG's Mobile Plate Hunter



- ◆ Easily mounted or transportable LPR systems allow officers to maintain a normal patrol stance while capturing up to 5-7,000 reads in an 8 hour shift.
- ◆ The System reads across 3 lanes of traffic and captures vehicles in excess of 120MPH closing speed and 75+MPH passing speeds.
- ◆ The MPH-900 requires no driver intervention and runs against up to 4.0M lines of hotlist files for vehicles of interest.
- ◆ Milliseconds after a Hot list vehicle is captured, the system sounds an audible & visual alarm to the operator for immediate interdiction.
- ◆ The MPH-900 reads plates from all 50 states and Canada including difficult to read flat and vanity tags – 24 hours DAY or NIGHT in all kinds of weather.



MPH-900 Mobile LPR System



LP's can be read anywhere in the camera's field of view at closing speeds in excess of 120 MPH.

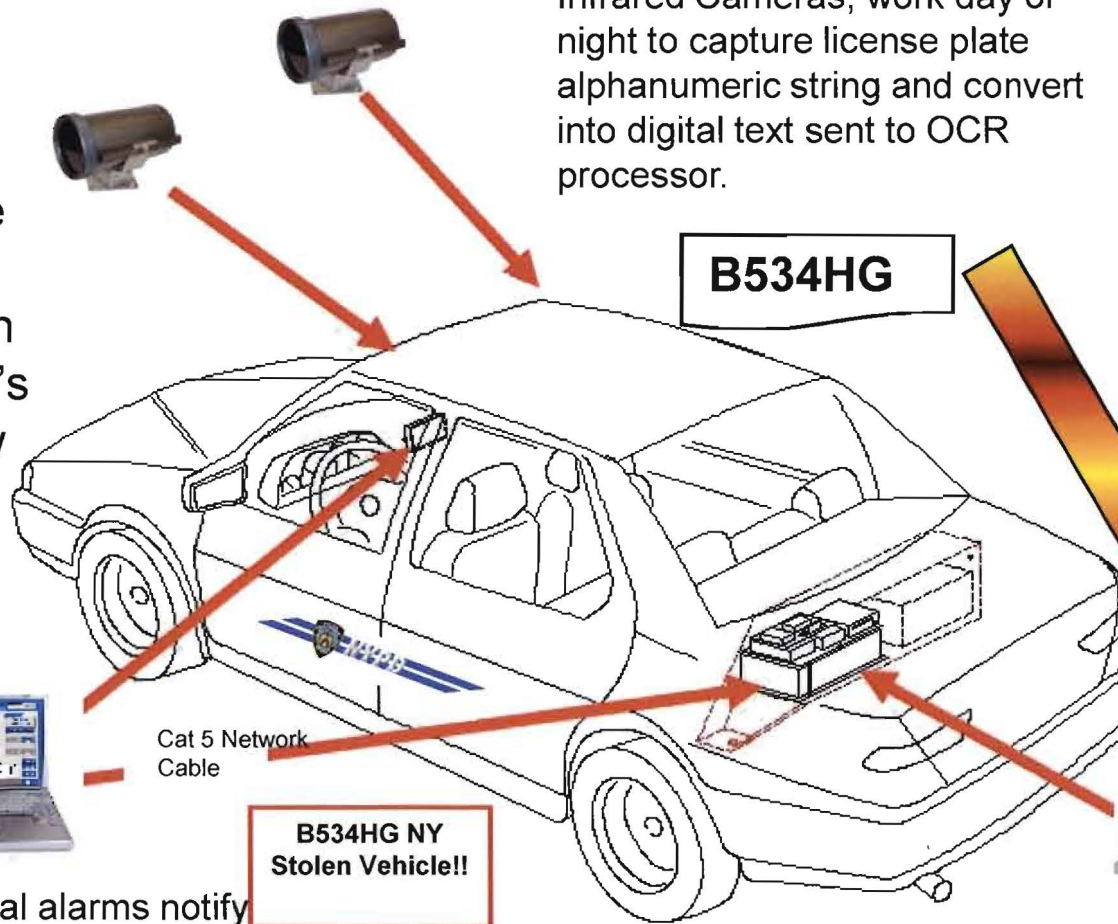


Audible and visual alarms notify the officer that intervention is necessary.

Infrared Cameras, work day or night to capture license plate alphanumeric string and convert into digital text sent to OCR processor.

The 40GB processor manages both cameras, up to a 4M line hotlist and sends a message to the laptop in less than 1 second.

60 GB processor



MPH900
Mobile Plate Hunter 900 Series

Split Camera Focal Points and Capabilities



Left Camera

Reads vehicles passing on your left and can be rotated to read rear tags

Left scans plates from 10-30 feet away

Processes both moving and parked vehicles, while the police vehicle is moving or parked.

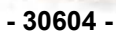


Right Camera

Reads Parked vehicles as well as cars that are passed on right.

Right scans plates from 8-25 feet away

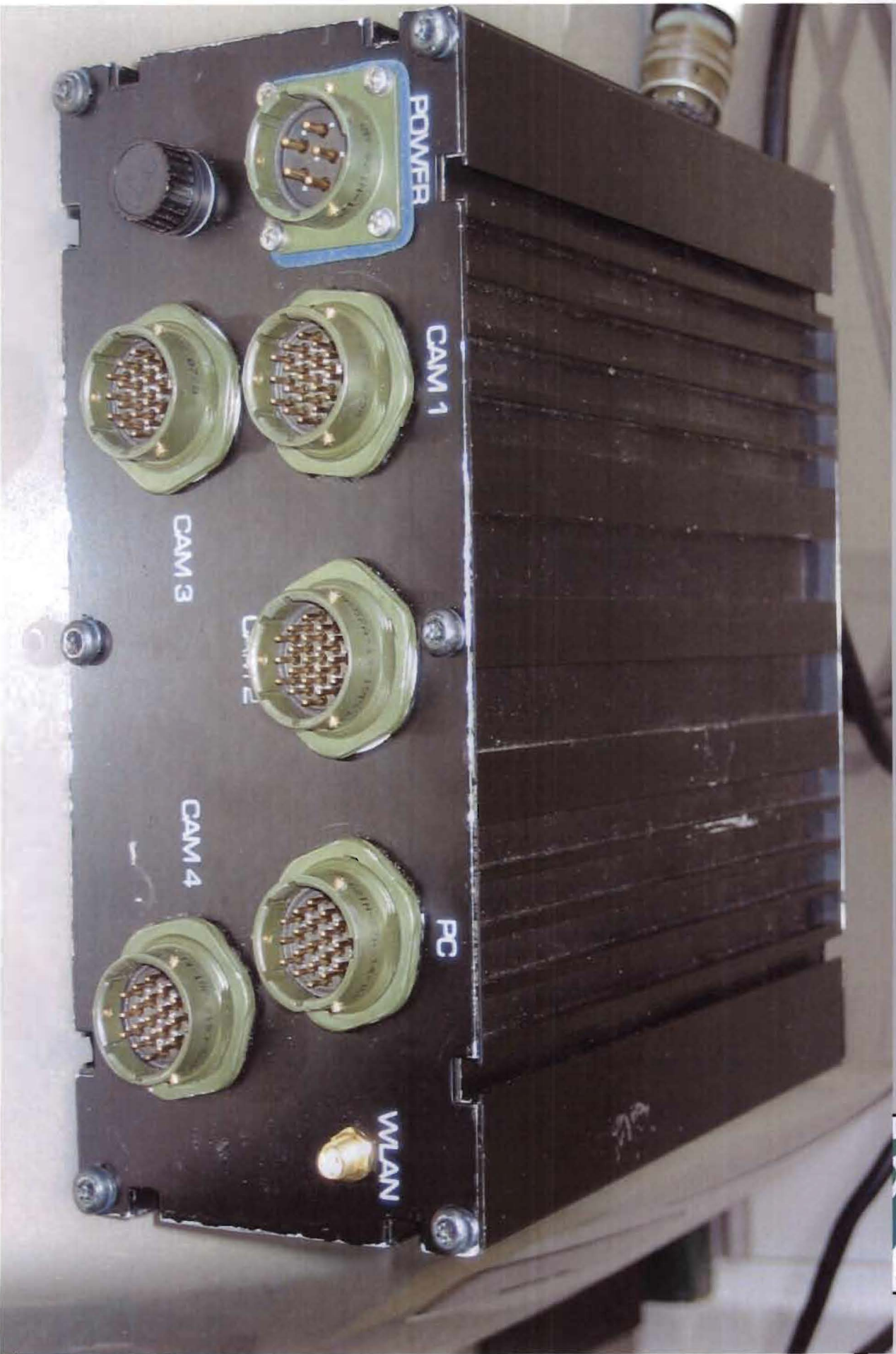
Images are transmitted to the processing unit at a rate of 25 frames per second which is then cross-checked versus a database of up to 4 million lines **Vehicles found in the database will alarm in milliseconds.**





- Cameras may be adjusted for whatever needs arise
- **NEVER FORCE THE CONNECTORS**
- **NEVER CONNECT OR DISCONNECT CAMERAS WITH POWER ON**

HUB



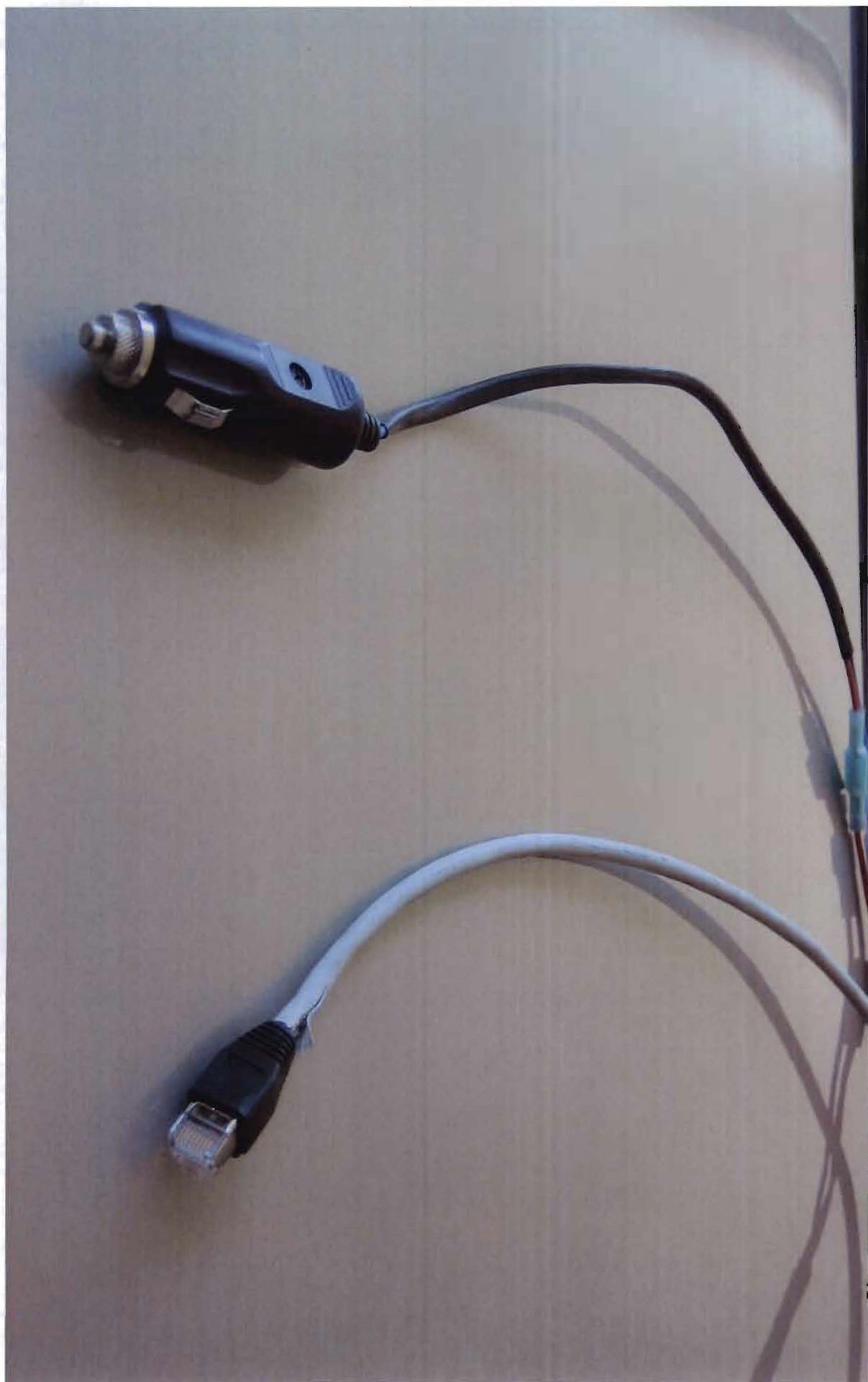
Camera Cords



Power & Ethernet Cords

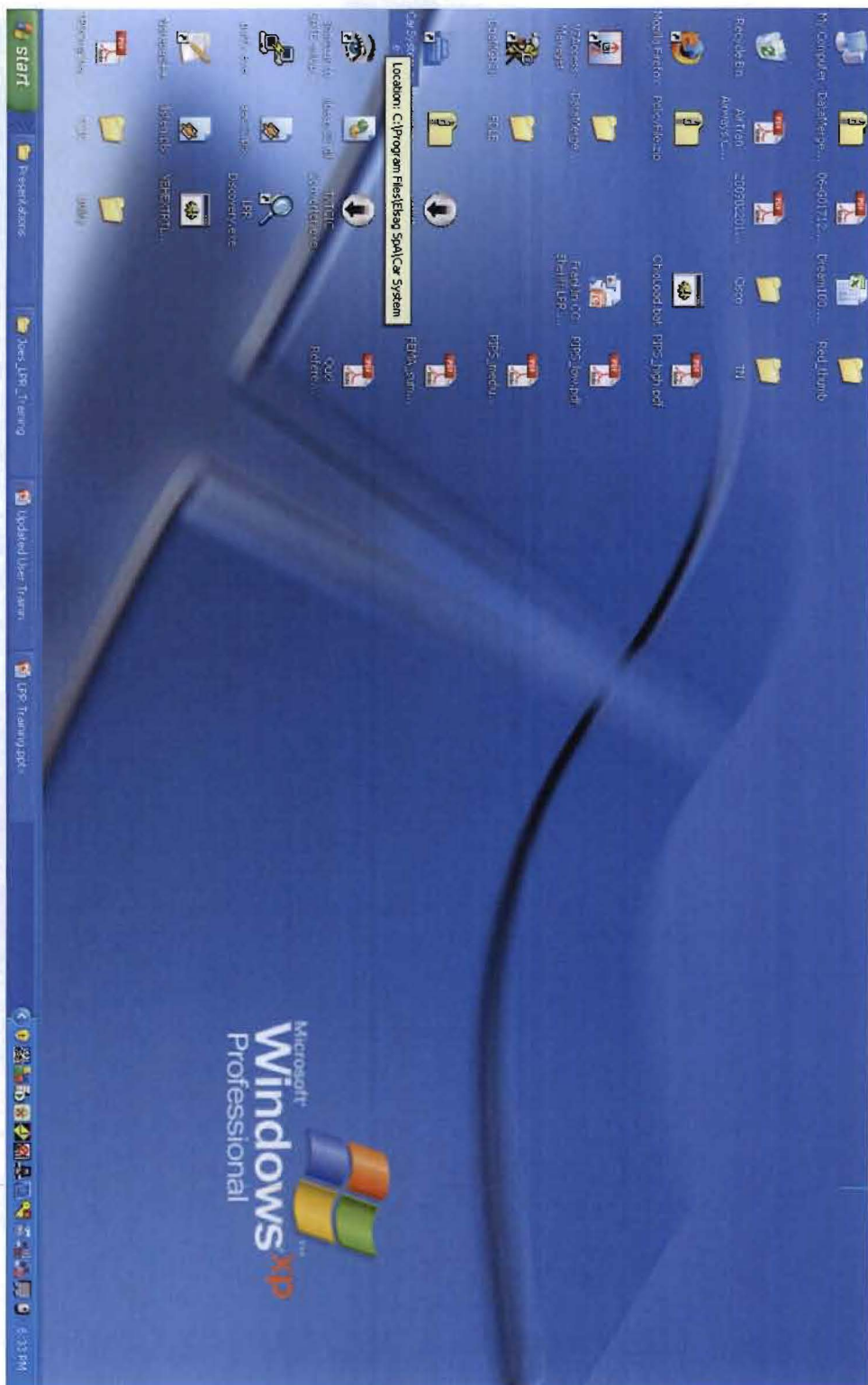


Power and Ethernet Cords





**• NEVER
CONNECT OR
DISCONNECT
CAMERAS WITH
POWER ON**



Car System Login



- Car System allows for multi user logins
- Blank passwords are acceptable and never expire
- All passwords expect blank passwords expire after 90 days

Car System Login

User	<input type="text" value="carsystem"/>									
Password	<input type="password"/>									

1	2	3	4	5	6	7	8	9	0
q	w	e	r	t	y	u	i	o	p
a	s	d	f	g	h	j	k	l	▲
z	x	c	v	b	n	m	◀	▼	▶
Caps							#@...		Canc

Car System Menu Screen



The screenshot shows a software interface titled "Menu". At the top, it displays "Vehicle ID: 1" and "Pending Alerts 0". There is an "Alerts" button and a window control icon (a square with an 'X'). The main area contains three large buttons: "LPR Mobile Plate Hunter 900" with an eye icon, "GPS Position" with a location pin icon, and "AMC Account Management Control" with an icon of two people and a key. A yellow callout bubble points to the "LPR Mobile Plate Hunter 900" button with the text "Click Mobile Plate Hunter 900 to start LPR interface". Another yellow callout bubble points to the "GPS Position" button with the text "Click GPS Position to confirm GPS signal". A third yellow callout bubble points to the "AMC Account Management Control" button with the text "Click AMC to add new user and change passwords". At the bottom, there is an "About" button, a timestamp "2008-08-12 14:53:12", and two status indicators labeled "LPR" and "GPS", each with a small red square next to it.

Main Car System Screen



LPR Mobile Plate Hunter 900

Vehicle ID: 1 Pending Alerts 0

Alerts [X]

Management Diagnostics

Hot list last update

2008-06-25 07:19

Operations

Readers

Right DKK8374 ? 07:55:43

Alarm Last events

Reads

Right	DKK8374	?	07:55:43
Right	EJF6215	?	07:55:33
Right	NSP0BA[0D]	?	07:55:28
Right	EER7039	?	07:55:28
Right	EJF5870	?	07:55:17
Right	EJY1860	?	07:54:53

Alarms

Info Setup Menu

About

2008-06-25 07:55:57

LPR [] GPS [] COM []

Hazard

"Live" menu
for Camera
adjustment

Manual plate
search, insert,
after action
reports and
maps

Last read
information

Last 6
reads

Processor Status

Main Car System Screen



LPR Mobile Plate Hunter 900

Vehicle ID: 1 Pending Alerts 0 Alerts [X]

Management Diagnostics

Hot list last update
2008-06-25 07:19

Operations

Readers

Right DKK8374 ? 07:55:43

Alarm Last events

Reads			
Right	DKK8374	?	07:55:43
Right	EJF6215	?	07:55:33
Right	NSP0BA[0D]	?	07:55:28
Right	EER7039	?	07:55:28
Right	EJF5870	?	07:55:17
Right	EJY1860	?	07:54:53

Alarms

Info Setup Menu Hazard

About 2008-06-25 07:55:57 LPR GPS COM

Last Hotlist
updated time
and date

Magnified
version of last
plate read

Setup
button to
configure
camera
names and
read signal
(beep)

Car System Setup Screen








LPR Mobile Plate Hunter 900

Vehicle ID: 1 Pending Alerts

2008-08-12 12:08

Setup

Reader view enable				Alarm class enable	
Right	<input checked="" type="checkbox"/>	R-00	<input checked="" type="checkbox"/>		Class 1 <input checked="" type="checkbox"/>
Left	<input checked="" type="checkbox"/>	R-01	<input checked="" type="checkbox"/>		Class 2 <input checked="" type="checkbox"/>
M-02	<input checked="" type="checkbox"/>	R-02	<input checked="" type="checkbox"/>		Class 3 <input checked="" type="checkbox"/>
M-03	<input checked="" type="checkbox"/>	R-03	<input checked="" type="checkbox"/>		Class 4 <input checked="" type="checkbox"/>
					Class 5 <input checked="" type="checkbox"/>

Transit beep ☒

Advanced

Accept

Info

Setup

About

2008-08-12 15:29:20

LPR ☐ GPS ☐ Hazard

Uncheck box to turn off beep for every read – alarm still sounds

Advanced button to label cameras

Car System Setup Screen



Label cameras Right and Left or Driver and Passenger

Setup

Reader config

<input checked="" type="checkbox"/>	M-00	00000	Right
<input checked="" type="checkbox"/>	M-01	00001	Left
<input checked="" type="checkbox"/>	M-02	00002	M-02
<input checked="" type="checkbox"/>	M-03	00003	M-03
<input checked="" type="checkbox"/>	R-00	00004	R-00
<input checked="" type="checkbox"/>	R-01	00005	R-01
<input checked="" type="checkbox"/>	R-02	00006	R-02
<input checked="" type="checkbox"/>	R-03	00007	R-03

Transit beep ☒

Back

Cancel

Ok

During the shift, officers may input new plates or manually search plates



Type License Plate Number using MDT keyboard or on-screen keyboard

Choose License Plate State

Up to 100 Characters of additional info

Mobile MDT Interface

Alerts 0 Hazard

Hot list results Reports Report results

Plate State ? - ALL COUNTRIES

Note

1	2	3	4	5	6	7	8	9	0
Q	W	E	R	T	Y	U	I	O	P
A	S	D	F	G	H	J	K	L	↕
Z	X	C	V	B	N	M	↶	↷	↸
Caps						#@...		Canc	

2006-03-13 20:12:19 LPR ☐ GPS ☐

Alarm Types



- Class 1 – Stolen Vehicle
- Class 2 – Wanted or Missing Person
- Class 3 – Stolen Plate
- Class 4 – Suspended or Revoked Driver
- Class 5 – Scofflaw or Other

Shift Reporting Searching



Mobile Plate Hunter 900

Alerts

Hazard

Vehicle ID: 1

Pending Alerts 0

Hot list

Hot list results

Reports

Report results

Start

12

03

2006

18

Day

Month

Year

Hour

End

12

03

2006

19

Alarms

Rejected Alarms

Reads

Search

Plate

State

? - ALL COUNTRIES

1	2	3	4	5	6	January	February	2005
7	8	9	10	11	12	March	April	2006
13	14	15	16	17	18	May	June	
19	20	21	22	23	24	July	August	
25	26	27	28	29	30	September	October	
31						November	December	

General report

Shift report

Close

Info

2006-03-12 18:42:58

LPR

GPS

The Reports tab is always defaulted to alarms in the last hour of time. Any parameter can be adjusted

Shift Reporting Results



LPR Mobile Plate Hunter 900 Alerts

Vehicle ID: 1 Pending Alerts 0

Hot list Hot list results Reports Report results Cartography

Found matches : 110

Date	Plate	State	Reader	Lat	Long
2008-08-12 14:25:18	EJK9346	?	Left	39.648470	-84.157225
2008-08-12 14:25:17	ELL6072	?	Left	39.648470	-84.157225
2008-08-12 14:25:16	EF92XJ	?	Left	39.648685	-84.157210
2008-08-12 14:25:16	K[11]MF[0D]X	?	Left	39.648685	-84.157210
2008-08-12 14:25:15	ELC6805	?	Left	39.648685	-84.157210
2008-08-12 14:25:14	[0D]G49	?	Left	39.648957	-84.157197
2008-08-12 14:25:13	1EG3765	?	Left	39.648957	-84.157197
2008-08-12 14:25:13	BF03HY	?	Left	39.648957	-84.157197
2008-08-12 14:25:05	BF78CM	?	Right	39.649210	-84.157188
2008-08-12 14:24:36	AKX4893	?	Left	39.651622	-84.157100

 Class
Source
Note
Export Close

About 2008-08-12 14:45:40 LPR ☐ GPS ☐ Hazard

Full detail of all tags scanned including an image and GPS coordinates is available to the system user at any time during or after a shift.

Shift Reporting Results



Click Cartography Tab to display ALL reads in report

LPR Mobile Plate Hunter 9

Vehicle ID: 1 Pending Alerts: 0

Alerts [X]

Hot list Hot list results Reports Report results **Cartography**

Found matches : 110

Date	Plate	State	Reader	Lat	Long
2008-08-12 14:25:18	EJK9346	?	Left	39.648470	-84.157225
2008-08-12 14:25:17	ELL6072	?	Left	39.648470	-84.157225
2008-08-12 14:25:16	EF92XJ	?	Left	39.648685	-84.157210
		?	Left	39.648685	-84.157210
		?	Left	39.648685	-84.157210
		?	Left	39.648957	-84.157197
		?	Left	39.648957	-84.157197
		?	Left	39.648957	-84.157197
-08-12 14:25:05	BF78CM	?	Right	39.649210	-84.157188
-08-12 14:24:36	AKX4893	?	Left	39.651622	-84.157100

Click plate image to display corresponding map location

Map showing location of EJK9346 near Covertside, Loop, and I-675.

Class: [] Source: [] Note: []

Export Close

About 2008-08-12 14:46:38 LPR GPS Hazard

Cartography



LPR Mobile Plate Hunter 900

Vehicle ID: 1 Pending Alerts 0 Alerts

Hot list Hot list results Reports Report results **Cartography**

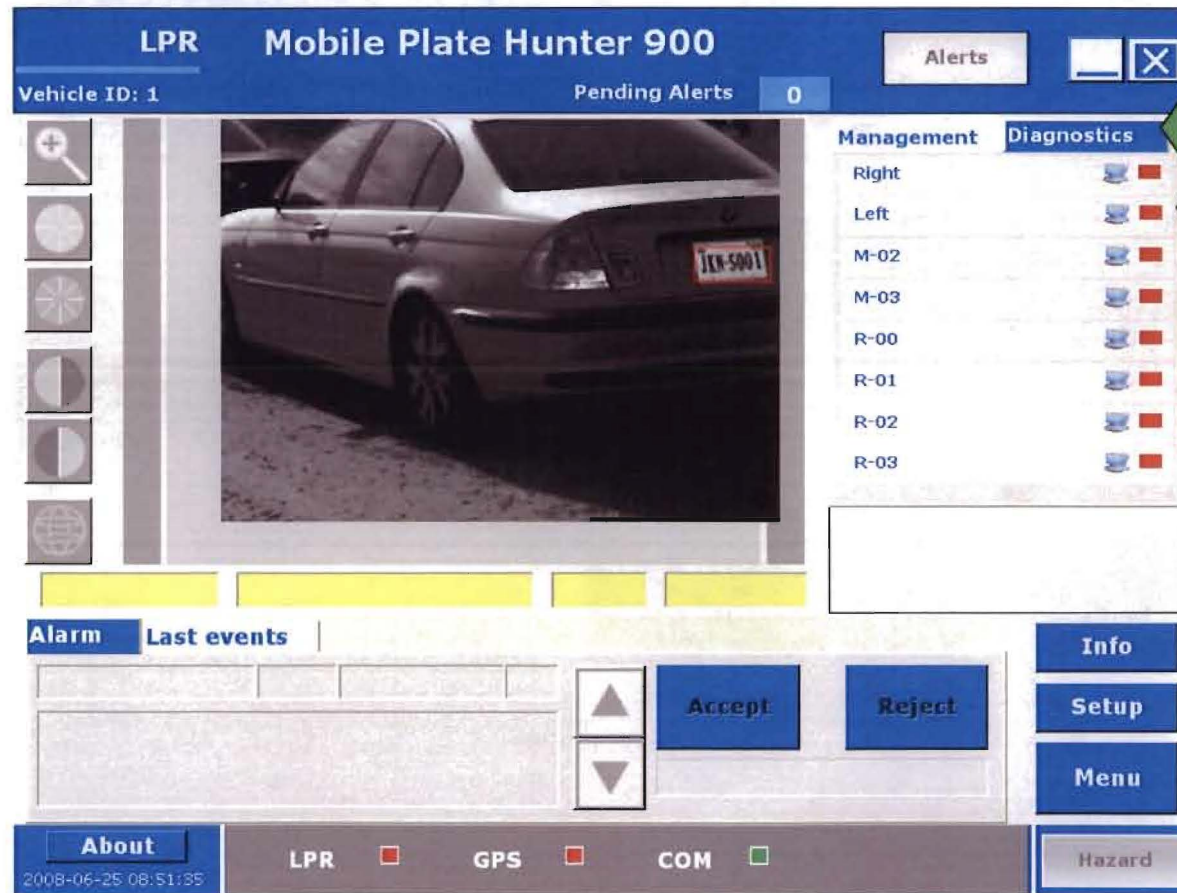
The map displays a geographic area with several vehicle locations marked by green dots and labeled with license plate numbers. The locations are clustered around a central area labeled 'mery'. Other labels on the map include 'Kettering' at the top, 'Centerville' at the bottom right, and 'Hole Creek' on the left. A yellow line representing a road or boundary runs through the center. The map interface includes a search icon, a zoom slider with '1:500000' and '1:100' markers, and 'Reset' and 'Close' buttons.

Reads: 110 Period: 2008-08-12 14:20:04 - 2008-08-12 14:31:24 Point(s) out of map: 21

About 2008-08-12 14:47:32

LPR ☒ GPS ☒ Hazard

The Diagnostics tab allows you to turn on a video stream to calibrate cameras



Clicking camera row starts live mode. Clicking Management tab automatically stops live mode

The system will not scan tags while in live mode

The MPH-900 works behind the scenes



Until the alarm sounds!

The screenshot shows the 'Mobile Plate Hunter 900' interface. At the top, it displays 'LPR Mobile Plate Hunter 900' and 'Vehicle ID: 1'. Below this is a large video feed showing a license plate 'DR50JD'. To the left of the video are several circular icons for image enhancement. To the right are buttons for 'Management', 'Diagnostics', 'Hot list last update', 'Operations', and 'Readers'. Below the video, there's a status bar with 'Right', 'DR50JD', '?', and '07:59:33'. At the bottom, there's an 'Alarm' section with 'Last events', showing 'DR50JD' and 'Stolen Vehicle'. There are also 'Accept' and 'Reject' buttons, and a 'Hazard' button at the very bottom right. The interface is designed for real-time monitoring and alarm management.

Enhancement Buttons Allow User to Zoom On Plate or Brighten Image

Up to 100 characters of alarm description

Alarms can be transmitted to dispatch

ALL ALARMS REQUIRE REAL TIME CONFIRMATION WITH NCIC

Confirm State in Alarm matches state of License plate that alarmed.

Contact Info



Toll Free Support #:

1-866-967-4900

Contact Name: Matt Maxwell

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